

## WHAT IS CLAIMED IS:

1. A molding apparatus for press-forming for providing a core material with a step comprising:

a frame;

a die provided on the frame, and on which a core material mounted;

a stripper pressing and releasing the core material mounted on the die by moving toward or away from the die;

a punch holder disposed on an upper part of the stripper, and supporting a punch which forms a step in the core material;

a press slide moving the punch holder toward or away from the die;

a linear motor reciprocating linearly and controlling a position of the die; and

a linear joint block connecting the die and the linear motor, and transmitting the linear reciprocation of the linear motor to the die.

2. The molding apparatus according to claim 1, wherein the die and the frame have scrap discharging holes to discharge out scraps generated after a punching process by the punch.